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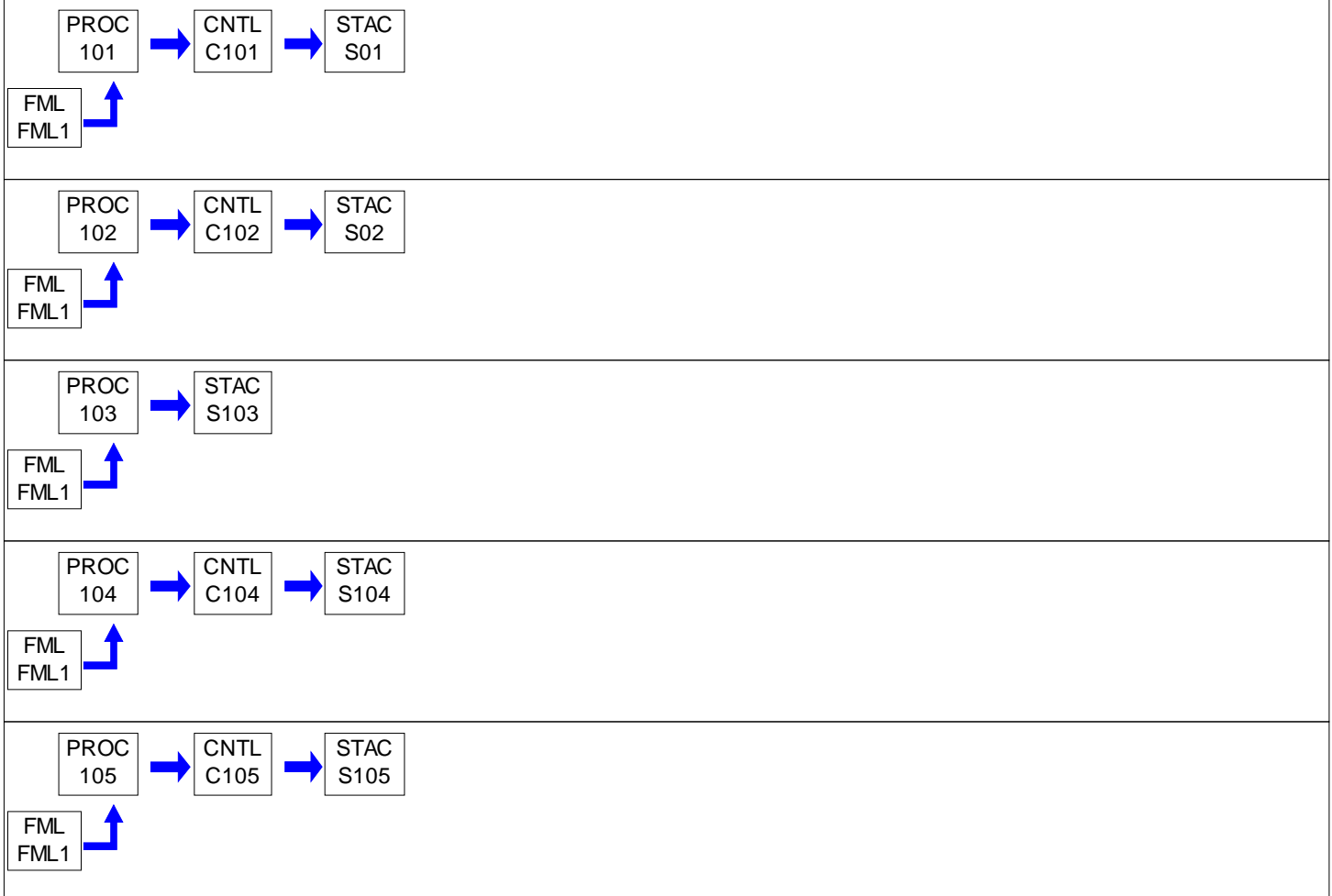
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**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
101	4 DIESEL ENGINES (2MW EACH)	145.400 Gal/HR	Diesel Fuel
102	DIESEL ENGINE (2MW)	145.400 Gal/HR	Diesel Fuel
103	DIESEL ENGINE (2MW)	138.000 Gal/HR	Diesel Fuel
104	5 DIESEL ENGINES (2.25 MW EACH)	155.600 Gal/HR	Diesel Fuel
105	DIESEL ENGINE (2.25 MW)	168.900 Gal/HR	Diesel Fuel
C101	DIESEL OXIDATION CATALYST (DOC)		
C102	DIESEL OXIDATION CATALYST		
C104	SCR AND DOC		
C105	SCR WITH DOC AND AMOX		
FML1	DIESEL/NO. 2 FUEL OIL		
S01	GENERATOR STACKS		
S02	STACK FOR 2MW DIESEL GENERATOR		
S103	2 MW DIESEL GENERATOR STACK		
S104	10 STACKS FOR 5 GENERATORS (2 STACKS/GENERATOR)		
S105	2,250 DIESEL GENERATOR (2.25 MW) STACKS (2)		

PERMIT MAPS



PERMIT MAPS

CNTL
C101 → STAC
S01

CNTL
C102 → STAC
S02

CNTL
C104 → STAC
S104

CNTL
C105 → STAC
S105

**SECTION B. General State Only Requirements****#001 [25 Pa. Code § 121.1]****Definitions.**

Words and terms that are not otherwise defined in this permit shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and in 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 127.446]**Operating Permit Duration.**

- (a) This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit.
- (b) The terms and conditions of the expired permit shall automatically continue pending issuance of a new operating permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit.

#003 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446 & 127.703(b)]**Permit Renewal.**

- (a) The permittee shall submit a timely and complete application for renewal of the operating permit to the appropriate Regional Air Program Manager. The application for renewal of the operating permit shall be submitted at least six (6) months and not more than 18 months before the expiration date of this permit.
- (b) The application for permit renewal shall include the current permit number, a description of any permit revisions that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.
- (c) The permittee shall submit with the renewal application a fee for the processing of the application as specified in 25 Pa. Code § 127.703(b). The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.
- (d) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413.
- (e) The application for renewal of the operating permit shall also include submission of supplemental compliance review forms in accordance with the requirements of 25 Pa. Code § 127.412(b) and § 127.412(j).
- (f) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information as necessary to address any requirements that become applicable to the source after the permittee submits a complete application, but prior to the date the Department takes action on the permit application.

#004 [25 Pa. Code § 127.703]**Operating Permit Fees under Subchapter F.**

- (a) The permittee shall pay the annual operating permit maintenance fee according to the following fee schedule in either paragraph (1) or (2) in accordance with 25 Pa. Code § 127.703(d) on or before December 31 of each year for the next calendar year.
- (1) For a synthetic minor facility, a fee equal to:
- (i) Four thousand dollars (\$4,000) for calendar years 2021—2025.
 - (ii) Five thousand dollars (\$5,000) for calendar years 2026—2030.
 - (iii) Six thousand three hundred dollars (\$6,300) for the calendar years beginning with 2031.
- (2) For a facility that is not a synthetic minor, a fee equal to:

**SECTION B. General State Only Requirements**

- (i) Two thousand dollars (\$2,000) for calendar years 2021—2025.
- (ii) Two thousand five hundred dollars (\$2,500) for calendar years 2026—2030.
- (iii) Three thousand one hundred dollars (\$3,100) for the calendar years beginning with 2031.

(b) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

#005 [25 Pa. Code §§ 127.450 (a)(4) and 127.464]**Transfer of Operating Permits.**

(a) This operating permit may not be transferred to another person, except in cases of transfer-of-ownership that are documented and approved by the Department.

(b) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership of the source shall be treated as an administrative amendment if the Department determines that no other change in the permit is required and a written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee and a compliance review form has been submitted to, and the permit transfer has been approved by, the Department.

(c) This operating permit is valid only for those specific sources and the specific source locations described in this permit.

#006 [25 Pa. Code § 127.441 and 35 P.S. § 4008]**Inspection and Entry.**

(a) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Department or authorized representatives of the Department to perform the following:

(1) Enter at reasonable times upon the permittee's premises where a source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;

(2) Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;

(3) Inspect at reasonable times, any facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;

(4) Sample or monitor, at reasonable times, any substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.

(b) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act or regulations adopted thereunder including denying the Department access to a source at this facility. Refusal of entry or access may constitute grounds for permit revocation and assessment of criminal and/or civil penalties.

(c) Nothing in this permit condition shall limit the ability of the EPA to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#007 [25 Pa. Code §§ 127.441 & 127.444]**Compliance Requirements.**

(a) The permittee shall comply with the conditions of this operating permit. Noncompliance with this permit constitutes a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one or more of the following:

- (1) Enforcement action

**SECTION B. General State Only Requirements**

(2) Permit termination, revocation and reissuance or modification

(3) Denial of a permit renewal application

(b) A person may not cause or permit the operation of a source which is subject to 25 Pa. Code Article III unless the source(s) and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued for the source is operated and maintained in accordance with specifications in the applications and the conditions in the plan approval and operating permit issued by the Department. A person may not cause or permit the operation of an air contamination source subject to 25 Pa. Code Chapter 127 in a manner inconsistent with good operating practices.

(c) For purposes of Sub-condition (b) of this permit condition, the specifications in applications for plan approvals and operating permits are the physical configurations and engineering design details which the Department determines are essential for the permittee's compliance with the applicable requirements in this State-Only permit. Nothing in this sub-condition shall be construed to create an independent affirmative duty upon the permittee to obtain a predetermination from the Department for physical configuration or engineering design detail changes made by the permittee.

#008 [25 Pa. Code § 127.441]**Need to Halt or Reduce Activity Not a Defense.**

It shall not be a defense for the permittee in an enforcement action that it was necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

#009 [25 Pa. Code §§ 127.442(a) & 127.461]**Duty to Provide Information.**

(a) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of each source at the facility.

(b) The permittee shall furnish to the Department, in writing, information that the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to maintain in accordance with this permit.

#010 [25 Pa. Code § 127.461]**Revising an Operating Permit for Cause.**

This operating permit may be terminated, modified, suspended or revoked and reissued if one or more of the following applies:

(1) The permittee constructs or operates the source subject to the operating permit so that it is in violation of the Air Pollution Control Act, the Clean Air Act, the regulations thereunder, a plan approval, a permit or in a manner that causes air pollution.

(2) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.

(3) The permittee has failed to submit a report required by the operating permit or an applicable regulation.

(4) The EPA determines that the permit is not in compliance with the Clean Air Act or the regulations thereunder.

#011 [25 Pa. Code §§ 127.450, 127.462, 127.465 & 127.703]**Operating Permit Modifications**

(a) The permittee is authorized to make administrative amendments, minor operating permit modifications and significant operating permit modifications, under this permit, as outlined below:

(b) Administrative Amendments. The permittee shall submit the application for administrative operating permit amendments (as defined in 25 Pa. Code § 127.450(a)), according to procedures specified in § 127.450 unless

**SECTION B. General State Only Requirements**

precluded by the Clean Air Act or its regulations.

(c) Minor Operating Permit Modifications. The permittee shall submit the application for minor operating permit modifications (as defined 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.

(d) Significant Operating Permit Modifications. The permittee shall submit the application for significant operating permit modifications in accordance with 25 Pa. Code § 127.465.

(e) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

#012 [25 Pa. Code § 127.441]**Severability Clause.**

The provisions of this permit are severable, and if any provision of this permit is determined by a court of competent jurisdiction to be invalid or unenforceable, such a determination will not affect the remaining provisions of this permit.

#013 [25 Pa. Code § 127.449]**De Minimis Emission Increases.**

(a) This permit authorizes de minimis emission increases in accordance with 25 Pa. Code § 127.449 so long as the permittee provides the Department with seven (7) days prior written notice before commencing any de minimis emissions increase. The written notice shall:

(1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.

(2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.

(b) The Department may disapprove or condition de minimis emission increases at any time.

(c) Except as provided below in (d), the permittee is authorized to make de minimis emission increases (expressed in tons per year) up to the following amounts without the need for a plan approval or prior issuance of a permit modification:

(1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.

(2) One ton of NO_x from a single source during the term of the permit and 5 tons of NO_x at the facility during the term of the permit.

(3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of oxides of sulfur at the facility during the term of the permit.

(4) Six-tenths of a ton of PM₁₀ from a single source during the term of the permit and 3.0 tons of PM₁₀ at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act, the regulations thereunder or 25 Pa. Code Article III.

(5) One ton of VOCs from a single source during the term of the permit and 5.0 tons of VOCs at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act, the regulations thereunder or 25 Pa. Code Article III.

(6) Other sources and classes of sources determined to be of minor significance by the Department.

(d) In accordance with § 127.14, the permittee is authorized to install the following minor sources without the need for a plan approval or permit modification:

(1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.

**SECTION B. General State Only Requirements**

- (2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.
 - (3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code §123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.
 - (4) Space heaters which heat by direct heat transfer.
 - (5) Laboratory equipment used exclusively for chemical or physical analysis.
 - (6) Other sources and classes of sources determined to be of minor significance by the Department.
- (e) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:
- (1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (c)(4) and (5) of this permit condition.
 - (2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.
 - (3) Violate any applicable requirement of this permit, the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.
- (f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.
- (g) Except for de minimis emission increases, installation of minor sources made pursuant to this permit condition and Plan Approval Exemptions under 25 Pa. Code § 127.14 (relating to exemptions), the permittee is prohibited from making changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.
- (h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

#014 [25 Pa. Code § 127.3]**Operational Flexibility.**

The permittee is authorized to make changes within the facility in accordance with the regulatory provisions outlined in 25 Pa. Code § 127.3 (relating to operational flexibility) to implement the operational flexibility requirements provisions authorized under Section 6.1(i) of the Air Pollution Control Act and the operational flexibility terms and conditions of this permit. The provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements include the following:

- (1) Section 127.14 (relating to exemptions)
- (2) Section 127.447 (relating to alternative operating scenarios)
- (3) Section 127.448 (relating to emissions trading at facilities with Federally enforceable emissions caps)
- (4) Section 127.449 (relating to de minimis emission increases)
- (5) Section 127.450 (relating to administrative operating permit amendments)
- (6) Section 127.462 (relating to minor operating permit modifications)
- (7) Subchapter H (relating to general plan approvals and general operating permits)

**SECTION B. General State Only Requirements****#015 [25 Pa. Code § 127.11a]****Reactivation of Sources**

- (a) The permittee may not reactivate a source that has been out of operation or production for at least one year unless the reactivation is conducted in accordance with a plan approval granted by the Department or in accordance with reactivation and maintenance plans developed and approved by the Department in accordance with 25 Pa. Code § 127.11a(a).
- (b) A source which has been out of operation or production for more than five (5) years but less than 10 years may be reactivated and will not be considered a new source if the permittee satisfies the conditions specified in 25 Pa. Code § 127.11a(b).

#016 [25 Pa. Code § 127.36]**Health Risk-based Emission Standards and Operating Practice Requirements.**

- (a) When needed to protect public health, welfare and the environment from emissions of hazardous air pollutants from new and existing sources, the permittee shall comply with the health risk-based emission standards or operating practice requirements imposed by the Department, except as precluded by §§ 6.6(d)(2) and (3) of the Air Pollution Control Act [35 P.S. § 4006.6(d)(2) and (3)].
- (b) A person challenging a performance or emission standard established by the Department has the burden to demonstrate that performance or emission standard does not meet the requirements of Section 112 of the Clean Air Act.

#017 [25 Pa. Code § 121.9]**Circumvention.**

No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of 25 Pa. Code Article III, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#018 [25 Pa. Code §§ 127.402(d) & 127.442]**Reporting Requirements.**

- (a) The permittee shall comply with the applicable reporting requirements of the Clean Air Act, the regulations thereunder, the Air Pollution Control Act and 25 Pa. Code Article III including Chapters 127, 135 and 139.
- (b) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of any air contamination source.
- (c) Reports, test data, monitoring data, notifications and requests for renewal of the permit shall be submitted to the:
- Regional Air Program Manager
PA Department of Environmental Protection
(At the address given in the permit transmittal letter, or otherwise notified)
- (d) Any records or information including applications, forms, or reports submitted pursuant to this permit condition shall contain a certification by a responsible official as to truth, accuracy and completeness. The certifications submitted under this permit shall require a responsible official of the facility to certify that based on information and belief formed after reasonable inquiry, the statements and information in the documents are true, accurate and complete.
- (e) Any records, reports or information submitted to the Department shall be available to the public except for such records, reports or information which meet the confidentiality requirements of § 4013.2 of the Air Pollution Control Act and §§ 112(d) and 114(c) of the Clean Air Act. The permittee may not request a claim of confidentiality for any emissions data generated for the facility.

**SECTION B. General State Only Requirements****#019 [25 Pa. Code §§ 127.441(c) & 135.5]****Sampling, Testing and Monitoring Procedures.**

(a) The permittee shall comply with the monitoring, recordkeeping or reporting requirements of 25 Pa. Code Chapter 139 and the other applicable requirements of 25 Pa. Code Article III and additional requirements related to monitoring, reporting and recordkeeping required by the Clean Air Act and the regulations thereunder including the Compliance Assurance Monitoring requirements of 40 CFR Part 64, where applicable.

(b) Unless alternative methodology is required by the Clean Air Act and regulations adopted thereunder, sampling, testing and monitoring required by or used by the permittee to demonstrate compliance with any applicable regulation or permit condition shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139.

#020 [25 Pa. Code §§ 127.441(c) and 135.5]**Recordkeeping.**

(a) The permittee shall maintain and make available, upon request by the Department, the following records of monitored information:

- (1) The date, place (as defined in the permit) and time of sampling or measurements.
- (2) The dates the analyses were performed.
- (3) The company or entity that performed the analyses.
- (4) The analytical techniques or methods used.
- (5) The results of the analyses.
- (6) The operating conditions as existing at the time of sampling or measurement.

(b) The permittee shall retain records of any required monitoring data and supporting information for at least five (5) years from the date of the monitoring, sample, measurement, report or application. Supporting information includes the calibration data and maintenance records and original strip-chart recordings for continuous monitoring instrumentation, and copies of reports required by the permit.

(c) The permittee shall maintain and make available to the Department upon request, records including computerized records that may be necessary to comply with the reporting, recordkeeping and emission statement requirements in 25 Pa. Code Chapter 135 (relating to reporting of sources). In accordance with 25 Pa. Code Chapter 135, § 135.5, such records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions.

#021 [25 Pa. Code § 127.441(a)]**Property Rights.**

This permit does not convey any property rights of any sort, or any exclusive privileges.

#022 [25 Pa. Code § 127.447]**Alternative Operating Scenarios.**

The permittee is authorized to make changes at the facility to implement alternative operating scenarios identified in this permit in accordance with 25 Pa. Code § 127.447.

#023 [25 Pa. Code § 121.7]**Prohibition of Air Pollution**

No person may permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. §§ 4001-4015).

**SECTION B. General State Only Requirements****#024 [25 Pa. Code §135.3]****Reporting**

(a) If the facility is a Synthetic Minor Facility, the permittee shall submit by March 1 of each year an annual emissions report for the preceding calendar year. The report shall include information for all active previously reported sources, new sources which were first operated during the preceding calendar year, and sources modified during the same period which were not previously reported. All air emissions from the facility should be estimated and reported.

(b) A source owner or operator of a Synthetic Minor Facility may request an extension of time from the Department for the filing of an annual emissions report, and the Department may grant the extension for reasonable cause.

#025 [25 Pa. Code §135.4]**Report Format**

If applicable, the emissions reports shall contain sufficient information to enable the Department to complete its emission inventory. Emissions reports shall be made by the source owner or operator in a format specified by the Department.

**SECTION C. Site Level Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §121.7]****Prohibition of air pollution.**

No person may permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. Section 4003).

002 [25 Pa. Code §123.1]**Prohibition of certain fugitive emissions**

(a) No person may permit the emission into the outdoor atmosphere of a fugitive air contaminant from a source other than the following:

- (1) Construction or demolition of buildings or structures.
- (2) Grading, paving and maintenance of roads and streets.
- (3) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.
- (4) Clearing of land.
- (5) Stockpiling of materials.
- (6) Open burning operations, as specified in 25 Pa. Code § 129.14.
- (7) N/A
- (8) N/A

(9) Sources and classes of sources other than those identified in (1)-(8) of this condition, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:

- (i) The emissions are of minor significance with respect to causing air pollution; and
- (ii) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

003 [25 Pa. Code §123.2]**Fugitive particulate matter**

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 25 Pa. Code § 123.1(a) (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

004 [25 Pa. Code §123.31]**Limitations**

A person may not permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

005 [25 Pa. Code §123.41]**Limitations**

A person may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

- (a) Equal to or greater than 20% for a period or periods aggregating more than three (3) minutes in any one (1) hour.
- (b) Equal to or greater than 60% at any time.

006 [25 Pa. Code §123.42]**Exceptions**

The opacity limitations as per 25 Pa. Code § 123.41 shall not apply to a visible emission in any of the following instances:

- (a) When the presence of uncombined water is the only reason for failure to meet the limitations.
- (b) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (c) When the emission results from the sources specified in 25 Pa. Code § 123.1(a) (relating to prohibition of certain fugitive emissions).

**SECTION C. Site Level Requirements****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall ensure that the emissions of the single highest hazardous air pollutant (HAP), from the facility, shall be less than 10 tons per year, as a 12-month rolling sum.

(b) The permittee shall ensure that the emissions of all aggregate HAPs, from the facility, shall be less than 25 tons per year, as a 12-month rolling sum.

Facility-wide emissions include emissions from the source(s) listed in this operating permit, all sources listed in Section A of the facility-wide operating permit No. 09-00142, as well as miscellaneous sources exempt from plan approval requirements which are listed in Section H of the facility-wide operating permit No. 09-00142.

NOTE: HAP emissions from diesel and oil storage tanks listed in Section H may be estimated as VOC emissions and DEF tanks are exempted as they contain nonvolatile aqueous salt solutions.

008 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall ensure that the total emissions of nitrogen oxides (NOx) from the facility shall not exceed 24.9 tons per year, as a 12-month rolling sum.

009 [25 Pa. Code §129.14]**Open burning operations**

No person may permit the open burning of material in the Southeast Air Basin except where the open burning operations result from:

(a) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.

(b) Any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.

(c) A fire set for the prevention and control of disease or pests, when approved by the Department.

(d) A fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.

(e) A fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of the structure.

(f) A fire set solely for recreational or ceremonial purposes.

(g) A fire set solely for cooking food.

II. TESTING REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) If at any time the Department has cause to believe that air contaminant emissions from any source(s) may be in excess of the limitations specified in this Permit, or established pursuant to, any applicable rule or regulation contained in 25 Pa. Code Article III, the permittee shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s).

(b) Such testing shall be conducted in accordance with the provisions of 25 Pa. Code Chapter 139 and the most current version of the DEP Source Testing Manual, and the EPA Clean Air Act National Stack Testing Guidance, when applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.

**SECTION C. Site Level Requirements****# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall email all source test submissions (notifications, protocols, reports, supplemental information, etc.) to both the AQ Program Manager for the Southeast Regional Office and the PSIMS Administrator in Central Office (email addresses are provided below). Any questions or concerns about source testing submissions can be sent to RA-EPstacktesting@pa.gov and the PSIMS Administrator will address them.

Southeast Region
RA-EPSEstacktesting@pa.gov

Central Office
RA-EPstacktesting@pa.gov

(b) The following pertinent information shall be listed on the title page.

1. Test Date(s)

- a. For protocols, provide the proposed date on which testing will commence or "TBD"
- b. For reports, provide the first and last day of testing

2. Facility Identification Number (Facility - ID): For test programs that were conducted under a multi-site protocol, also include the PF ID under which the protocol was stored in PSIMS, as indicated in the protocol response letter.

3. Source ID(s) for the applicable source(s) and air pollution control device(s): The term Source ID is used in the permit but "Other Id" is used in DEP electronic systems. They are the same number and must also be listed for control equipment

4. Testing Requirements (all that apply) engineer: edit as necessary, be specific if it helps

- a. Plan approval number(s)
- b. Operating permit number
- c. Applicable federal subpart(s) (i.e. 40 CFR 60, Subpart JJJJ)
- d. Special purpose(s) (Consent Order, RFD, RACT II, Tier II, etc.)

(c) If confidential information must be submitted, submit both a public copy, which has been redacted, and a confidential copy. The cover page of each submittal should state whether it is a "Public Copy" or "Confidential Copy" and each page of the latter must be marked "CONFIDENTIAL".

III. MONITORING REQUIREMENTS.**# 012 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

- (a) A device approved by the Department and maintained to provide accurate opacity measurements.
- (b) Observers trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

013 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall monitor the facility, once per operating day, for the following:

- (1) Odors which may be objectionable (as per 25 Pa. Code §123.31);
- (2) Visible emissions (as per 25 Pa. Code §§123.41 and 123.42); and
- (3) Fugitive particulate matter (as per 25 Pa. Code §§ 123.1 and 123.2).

**SECTION C. Site Level Requirements**

(b) Objectionable odors, fugitive particulate emissions, and visible emissions that are caused or may be caused by operations at the site shall:

- (1) Be investigated;
- (2) Be reported to the facility management, or individual(s) designated by the permittee;
- (3) Have appropriate corrective action taken (for emissions that originate on-site); and
- (4) Be recorded in a permanent written log.

(c) After six (6) months of daily monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the monitoring frequency to weekly.

(d) After six (6) months of weekly monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the frequency of monitoring to monthly.

(e) The Department reserves the right to change the above monitoring requirements at any time, based on but not limited to: the review of the compliance certification (if applicable), complaints, monitoring results, and/or Department findings.

014 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall monitor the total nitrogen oxide (NOx) emissions from the facility on a monthly basis and as a 12-month rolling sum.

015 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall monitor the single highest HAP emissions from the facility on a monthly basis and as a 12-month rolling sum.

(b) The permittee shall monitor the aggregate HAP emissions from the facility on a monthly basis and as a 12-month rolling sum.

IV. RECORDKEEPING REQUIREMENTS.**# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall calculate and maintain records of the single highest HAP emissions from the facility on a monthly basis and as a 12-month rolling sum.

(b) The permittee shall calculate and maintain records of all aggregate HAPs emissions from the facility on a monthly basis and as a 12-month rolling sum.

017 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall maintain a record of all monitoring of fugitive emissions, visible emissions and odors, including those that deviate from the conditions found in this permit. The record of deviations shall contain, at a minimum, the following items:

- (a) Date, time, and location of the incident(s);
- (b) The cause of the event; and
- (c) The corrective action taken, if necessary, to abate the situation and prevent future occurrences.

018 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall maintain records of all the facility's increases of emissions from the following categories:

- (a) emissions increase of minor significance without notification to the Department.
- (b) de minimis increases with notification to the Department, via letter.
- (c) increases resulting from a Request for Determination (RFD) to the Department.
- (d) increases resulting from the issuance of a plan approval and subsequent operating permit.

**SECTION C. Site Level Requirements****# 019 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall calculate and maintain records of the total NOx emissions from the facility on a monthly basis and as a 12-month rolling sum.

V. REPORTING REQUIREMENTS.**# 020 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Reports that are required to be submitted under parts 60 and 63, with the exception of reports required under the MATS rule, shall be submitted via CDX/CEDRI.

Note: DEP stack test notifications and reports shall be submitted to the stack test email addresses furnished in Section C Cond #011.

021 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department at 484-250-5920. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

(b) When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department and the County Emergency Management Agency by telephone within one (1) hour after the discovery of the malfunction, emergency or incident of excess emissions. The owner or operator shall submit a written or emailed report of instances of such malfunctions, emergencies or incidents of excess emissions to the Department within three (3) business days of the telephone report.

(c) The report shall describe the following:

- (1) Name, permit or authorization number, and location of the facility;
- (2) Nature and cause of the malfunction, emergency or incident;
- (3) Date and time when the malfunction, emergency or incident was first observed;
- (4) Expected duration of excess emissions;
- (5) Estimated rate of emissions; and
- (6) Corrective actions or preventative measures taken.

(d) Any malfunction, emergency or incident of excess emissions that is not subject to the notice requirements of paragraph (b) of this condition shall be reported to the Department by telephone within 24 hours (or by 4:00 PM of the next business day, whichever is later) of discovery and in writing or by e-mail within five (5) business days of discovery. The report shall contain the same information required by paragraph (c), and any permit specific malfunction reporting requirements.

(e) During an emergency an owner or operator may continue to operate the source at their discretion provided they submit justification for continued operation of a source during the emergency and follow all the notification and reporting requirements in accordance with paragraphs (b)-(d), as applicable, including any permit specific malfunction reporting requirements.

(f) Reports regarding malfunctions, emergencies or incidents of excess emissions shall be submitted to the appropriate DEP Regional Office Air Program Manager.

(g) Any emissions resulted from malfunction or emergency are to be reported in the annual emissions inventory report, if the annual emissions inventory report is required by permit or authorization.

**SECTION C. Site Level Requirements****# 022 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR 68.]

- (a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).
- (b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the threshold quantity at a facility. The permittee shall submit the RMP to the federal Environmental Protection Agency according to the following schedule and requirements:
- (1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:
- (i) Three years after the date on which a regulated substance is first listed under 40 CFR § 68.130; or,
 - (ii) The date on which a regulated substance is first present above a threshold quantity in a process.
- (2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.
- (3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.
- (c) As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.
- (d) If this facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall:
- (1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,
 - (2) Certify that this facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.
- (e) If this facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for five (5) years in accordance with 40 CFR § 68.200.
- (f) When this facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if the permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.

VI. WORK PRACTICE REQUIREMENTS.**# 023 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

A person responsible for any source specified in 25 Pa. Code § 123.1 shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- (a) Use, where possible, of water or suitable chemicals, for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.

**SECTION C. Site Level Requirements**

- (b) Application of asphalt, water, or other suitable chemicals, on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- (c) Paving and maintenance of roadways.
- (d) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or by other means.

024 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall immediately, upon discovery, implement measures, which may include the application for the installation of an air cleaning device(s), if necessary, to reduce the air contaminant emissions to within applicable limitations, if at any time the operation of the source(s) identified in this permit, is causing the emission of air contaminants in excess of the limitations specified in, or established pursuant to, 25 Pa. Code Article III or any other applicable rule promulgated under the Clean Air Act.

025 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee may not modify any air contaminant system identified in this permit, prior to obtaining Department approval, except those modifications authorized by Condition #013(g), of Section B, of this permit.

026 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall ensure that the source(s) and air pollution control device(s), listed in this permit, are operated and maintained in a manner consistent with good operating and maintenance practices, and in accordance with manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this permit including Section B (relating to State Only General Requirements).

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

**SECTION D. Source Level Requirements**

Source ID: 101

Source Name: 4 DIESEL ENGINES (2MW EACH)

Source Capacity/Throughput: 145.400 Gal/HR Diesel Fuel

Conditions for this source occur in the following groups: GROUP 1
GROUP 2

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.**# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall ensure that each of the four (4) 2.0 MW Diesel Engines (Source ID: 101) shall be equipped with diesel oxidation catalyst (DOC) system.

VII. ADDITIONAL REQUIREMENTS.**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Listed below is the source information for the four (4) 2.0 MW Diesel Engines (Source ID: 101):

Generator No.	Generator Serial No.	Engine Serial No.
G1	ACW00404	6HN01424
G2	ACQ00415	6HN01418
G3	ACW00465	6HN01409



SECTION D. Source Level Requirements

G4	ACW00406	6HN01433
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**SECTION D. Source Level Requirements**

Source ID: 102

Source Name: DIESEL ENGINE (2MW)

Source Capacity/Throughput: 145.400 Gal/HR Diesel Fuel

Conditions for this source occur in the following groups: GROUP 1
GROUP 2**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.**# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall ensure that the 2.0 MW Diesel Engine (Source ID: 102) shall be equipped with diesel oxidation catalyst (DOC) system.

VII. ADDITIONAL REQUIREMENTS.**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Listed below is the source information for the 2.0 MW Diesel Engine (Source ID: 102):

Generator No.	Generator Serial No.	Engine Serial No.
G5	ACR00405	6HN01405

**SECTION D. Source Level Requirements**

Source ID: 103

Source Name: DIESEL ENGINE (2MW)

Source Capacity/Throughput: 138.000 Gal/HR Diesel Fuel

Conditions for this source occur in the following groups: GROUP 2
GROUP 3**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall ensure that the pollutant emissions from the 2MW Diesel Engine (Source ID: 103) shall not exceed the following, averaged by three (3) one-hour run tests:

- (a) NO_x: 42.1 lb/hr;
- (b) CO: 3.45 lb/hr.

The NO_x and CO emission limits for the 2MW Diesel Engine (Source ID: 103) applies at 100% load (+/- 10%) per the manufacturer's Emission Performance Data Sheet number DM8263.

[Compliance with the hourly NO_x restriction assures compliance with the aggregate NO_x emissions limit of 24.9 tons per year, as a 12-month rolling sum.]

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall ensure that the pollutant emissions from the 2MW Diesel Engines (Source ID: 103) shall not exceed the following:

- (a) HC: 1.0 g/hp-hr
- (b) NO_x: 6.9 g/hp-hr
- (c) CO: 8.5 g/hp-hr
- (d) PM: 0.4 g/hp-hr

[Note: The above emissions standards corresponds to standards for engines with a maximum power rating greater than 560-kW in Table 1 to Subpart IIII of Part 60.]

Operation Hours Restriction(s).**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall ensure that the 2MW Diesel Engine (Source ID: 103) is operated not more than 195 hours per year, as a 12-month rolling sum, for all operating scenarios.

[Compliance with the operation hours restriction assures compliance with the aggregate NO_x emissions limit of 24.9 tons per year, as a 12-month rolling sum.]

**SECTION D. Source Level Requirements****II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Listed below is the source information for the 2.0 MW Diesel Engine (Source ID: 103):

Generator No.	Generator Serial No.	Engine Serial No.
G6	19884	SBJ00463

**SECTION D. Source Level Requirements****II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall ensure that each of the 2.25 MW Diesel Engines (Source ID: 104) shall be equipped with diesel oxidation catalyst (DOC) and selective catalyst reduction (SCR) systems.

(b) The permittee shall ensure that the SCR and DOC systems shall be operated to achieve the NO_x and CO emission limitations specified for these engines.

VII. ADDITIONAL REQUIREMENTS.**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Listed below is the source information for the five (5) 2.25 MW (each) Diesel Engines comprising Source ID: 104:

Generator No.	Generator Serial No.	Engine Serial No.
G7	G9E00119	SCK00120
G8	G9E00120	SCK00123
G9	G9E00118	SCK00121
G10	G9E00123	SCK00119
G11	G9E00117	SCK00122

**SECTION D. Source Level Requirements**

Source ID: 105

Source Name: DIESEL ENGINE (2.25 MW)

Source Capacity/Throughput: 168.900 Gal/HR Diesel Fuel

Conditions for this source occur in the following groups: GROUP 2
GROUP 3**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The exhaust emissions from the diesel-fired internal combustion engine (ICE) shall not exceed the following, averaged by three (3) one-hour run tests:

(a) NO_x: 7.18 lb/hr (5.31 lb/hr @ 100% load)

(b) CO: 1.26 lb/hr (1.01 lb/hr @ 100% load)

(c) VOC (HC): 0.24 lb/hr (0.19 @ 100% load)

(d) PM: 0.54 lb/hr (0.31 lb/hr @ 100% load)

The pollutant emission limits for the diesel-fired internal combustion engine applies at 100% load (+/-10%) per the manufacturer's Emission Performance Data Sheet number DM9371.

[Compliance with the hourly NO_x restriction assures compliance with the aggregate NO_x emissions limit of 24.9 tons per year, for all sources in SOOP 09-00142, as a 12-month rolling sum.]

Operation Hours Restriction(s).**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall ensure that the hours of operation for the Diesel Engine (Source ID: 105) shall not exceed more than 185 hours per year, as a 12-month rolling sum.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall utilize the following pollution control (PCS) for the Diesel Engine (2.25 MW) (Source ID:105), when operating:

(1) Selective Catalyst Reduction (SCR) technology with diesel exhaust fluid (DEF) injection for NOx control;

[Note: The DEF usage rate @ 100% load shall no more that 50.7 l/hr or 13.4 gal/hr.]

(2) Diesel Oxidation Catalyst (DOC) system for PM and VOC (e.g., hydrocarbons) control; and,

(3) Ammonia oxidation (AMOX) catalyst for ammonia slip control.

VII. ADDITIONAL REQUIREMENTS.**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The nonemergency generator (Source ID: 105) is manufactured by Caterpillar, model no. 3516C, has a maximum rated capacity of 2,250-kW @ 100% generator load and 3,279-hp @100% load rating of the generator.

005 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Diesel Fuel Oil Tank (Source ID: FML2) is a 400-gallon (cap.) aboveground storage tank (ABS).

**SECTION E. Source Group Restrictions.**

Group Name: GROUP 1

Group Description: 5 Diesel Engines (2MW Each) Conditions

Sources included in this group

ID	Name
101	4 DIESEL ENGINES (2MW EACH)
102	DIESEL ENGINE (2MW)

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The emissions from each engine shall not exceed the following, averaged by three (3) one-hour run tests:

- (a) NO_x: 38.83 lb/hr
- (b) CO: 6.94 lb/hr

The NO_x and CO emission limits for the diesel engines applies at 100% load (+/-10%) per the manufacturer's Emission Performance Data Sheet number DM1394.

[Compliance with the hourly NO_x restriction assures compliance with the aggregate NO_x emissions limit of 24.9 tons per year, as a 12-month rolling sum.]

002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6603]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE?**

[Additional authority for this permit condition was obtained from Table 2d to Subpart ZZZZ of Part 63.]

(a) The owner or operator of a non-emergency, non-black start compression-ignition (CI) stationary RICE with a site rating greater than 500 HP shall comply with the following, except during start-up operations:

- (1) limit CO concentration in the stationary RICE exhaust to 23 ppmvd at 15 percent O₂, or
- (2) reduce CO emissions by 70 percent or more.

(b) During periods of startup, the owner or operator must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.

Fuel Restriction(s).**# 003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6604]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What fuel requirements must I meet if I own or operate an existing stationary CI RICE?**

[Additional authority for this permit condition was obtained from 40 CFR § 1090.305.]

The owner or operator of an existing non-emergency, non-black start CI stationary RICE with a site rating more than 300 brake HP with a displacement of less than 30 liters per cylinders must use nonb road diesel fuel that meets the following per-gallon standards:

- (a) Sulfur content: 15 ppm maximum
- (b) Cetane index or aromatic content, as follows:

**SECTION E. Source Group Restrictions.**

- (1) A minimum cetane index of 40; or
- (2) A maximum aromatic content of 35 volume percent.

Operation Hours Restriction(s).**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall ensure that the five (5) 2.0 MW Diesel Engines (Source ID(s): 101 and 102) are operated not more than a combined 925 hours per year, as a 12-month rolling sum, for all operating scenarios.

[Compliance with the operation hours restriction assures compliance with the aggregate NOx emissions limit of 24.9 tons per year, as a 12-month rolling sum.]

II. TESTING REQUIREMENTS.**# 005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6615]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****When must I conduct subsequent performance tests?**

[Additional authority for this permit condition was obtained from Table 3 to Subpart ZZZZ of Part 63.]

The permittee shall conduct subsequent performance tests on each engine for CO concentration, or CO percent reduction every 3 years.

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6620]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What performance tests and other procedures must I use?**

[Additional authority for this permit condition was obtained from Table 4 to Subpart ZZZZ of Part 63.]

The permittee shall conduct each performance test according to the requirement that the subpart specifies in Table 4 of Subpart ZZZZ to Part 63.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6630]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****How do I demonstrate initial compliance with the emission limitations and operating limitations?**

(a) During the initial performance test, the permittee shall establish operating parameter limitations for load-dependent pressure drop across the catalyst. The permittee shall maintain these operating parameter limitations on site.

(b) In accordance with 40 CFR § 63.6640(b), if the catalyst has been changed, the permittee shall re-establish the operating parameter limitations for load-dependent pressure drop across the catalyst. When re-establishing the operating parameter values, the permittee shall conduct a performance test to demonstrate that the emission limitations for the stationary RICE are being met. The performance test shall be conducted within 60 days of catalyst change out. A previously approved test protocol will be accepted if there are no changes to test methods or procedures.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?**

(a) If the catalyst is changed, the permittee must reestablish the values of the operating parameters for the engines.

(b) When reestablishing the values of the operating parameters, the permittee must conduct a performance test to demonstrate that the required CO emission limitation is met.

**SECTION E. Source Group Restrictions.****III. MONITORING REQUIREMENTS.****# 009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

The permittee must operate and maintain a continuous parameter monitoring system (CPMS) in accordance with the following requirements.

(a) The permittee must prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined below and in 40 CFR § 63.8(d).

(1) The performance criteria and design specifications for the monitoring system equipment, including the sample interface, detector signal analyzer, and data acquisition and calculations;

(2) Sampling interface (e.g., thermocouple) location such that the monitoring system will provide representative measurements;

(3) Equipment performance evaluations, system accuracy audits, or other audit procedures;

(4) Ongoing operation and maintenance procedures in accordance with provisions in 40 CFR § 63.8(c)(1)(ii) and (c)(3); and

(5) Ongoing reporting and recordkeeping procedures in accordance with provisions in 40 CFR § 63.10(c), (e)(1), and (e)(2)(i).

(b) The permittee must install, operate, and maintain each CPMS in continuous operation according to the procedures in the site-specific monitoring plan.

(c) The CPMS must collect data at least once every 15 minutes in accordance with 40 CFR § 63.6635.

(d) For a CPMS for measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit) or 1 percent of the measurement range, whichever is larger.

(e) The permittee must conduct the CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in the site-specific monitoring plan at least annually.

(f) The permittee must conduct a performance evaluation of each CPMS in accordance with the site-specific monitoring plan.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?**

The permittee must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements according to methods specified below:

(a) Collecting the catalyst inlet temperature data; and

(b) Reducing these data to 4-hour rolling averages; and

(c) Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and

(d) Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.

* Please note the following as per EPA letter dated November 29, 2019:

(1) For calculating the rolling 4-hour catalyst temperature averages, the permittee may exclude CPMS data collected during 30-minute or less maintenance events, akin to periods of start-up, as defined in Subpart ZZZZ.

(2) The pressure drop data gathered during engine operation shall demonstrate compliance with the pressure differential requirement of one (1) data point per month.

[Note: The permittee shall demonstrate continuous compliance with this condition by complying with Table 6 to Subpart

**SECTION E. Source Group Restrictions.**

ZZZZ of Part 63, Bracket 10.]

[Note: If the engine does not operate during a given calendar month, the owner/operator does not have to start up the engine solely for the purpose of recording pressure drop.]

IV. RECORDKEEPING REQUIREMENTS.**# 011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What records must I keep?**

(a) The permittee shall keep:

(1) A copy of each notification and report submitted to comply with 40 CFR 63 Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status submitted, according to the requirement in 40 CFR § 63.10(b)(2)(xiv).

(2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

(3) Records of performance tests and performance evaluations as required in 40 CFR § 63.10(b)(2)(viii).

(4) Records of all required maintenance performed on the air pollution control and monitoring equipment.

(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR § 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(b) For each CPMS, the permittee must keep the records listed below.

(1) Records described in 40 CFR § 63.10(b)(2)(vi) through (xi).

(2) Previous (i.e., superseded) versions of the performance evaluation plan as required in 40 CFR § 63.8(d)(3).

(c) The permittee must keep the records required to show continuous compliance with each emission or operating limitation that applies.

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What records must I keep?**

[Additional authority for this permit condition was obtained from 40 CFR § 63.10(b)(2).]

The owner or operator of an affected source subject to the provisions of this part shall maintain relevant records for such source:

(a) Each period during which a CMS is malfunctioning or inoperative (including out-of-control periods);

(b) All required measurements needed to demonstrate compliance with a relevant standard (including, but not limited to, 15-minute averages of CMS data, raw performance testing measurements, and raw performance evaluation measurements, that support data that the source is required to report);

[Note: The permittee shall ensure compliance with this condition by complying with Condition #010 of this Section.]

(i) This paragraph applies to owners or operators required to install a continuous emissions monitoring system (CEMS) (i.e., Continuous Parameter Monitoring System (CPMS)) where the CEMS installed is automated, and where the calculated data averages do not exclude periods of CEMS breakdown or malfunction. An automated CEMS records and reduces the measured data to the form of the pollutant emission standard through the use of a computerized data acquisition system. In lieu of maintaining a file of all CEMS subhourly measurements as required under paragraph (b), the owner or operator shall

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retain the most recent consecutive three averaging periods of subhourly measurements and a file that contains a hard copy of the data acquisition system algorithm used to reduce the measured data into the reportable form of the standard.

(ii) This paragraph applies to owners or operators required to install a CEMS where the measured data is manually reduced to obtain the reportable form of the standard, and where the calculated data averages do not exclude periods of CEMS breakdown or malfunction. In lieu of maintaining a file of all CEMS subhourly measurements as required under paragraph (b), the owner or operator shall retain all subhourly measurements for the most recent reporting period. The subhourly measurements shall be retained for 120 days from the date of the most recent summary or excess emission report submitted to the Administrator.

(iii) The Administrator or delegated authority, upon notification to the source, may require the owner or operator to maintain all measurements as required by paragraph (b), if the administrator or the delegated authority determines these records are required to more accurately assess the compliance status of the affected source.

(c) All results of performance tests, CMS performance evaluations, and opacity and visible emission observations;

(d) All measurements as may be necessary to determine the conditions of performance tests and performance evaluations;

(e) All CMS calibration checks;

(f) All adjustments and maintenance performed on CMS.

013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6660]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

In what form and how long must I keep my records?

(a) The records must be in a form suitable and readily available for expeditious review according to 40 CFR §63.10(b)(1).

(b) As specified in 40 CFR §63.10(b)(1), the permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) The permittee must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR §63.10(b)(1).

V. REPORTING REQUIREMENTS.

014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?

(a) The permittee must report each instance in which the emission limitation or operating limitations are not met. These instances are deviations from the emission and operating limitations. These deviations must be reported according to the requirements in 40 CFR §63.6650.

(b) The permittee must also report each instance in which the requirements in 40 CFR 63 Subpart A that apply were not met.

[Note: Condition #010 of this Section should be referred to in the determination of how continuous compliance should be demonstrated and as the basis for determining what constitutes a deviation.]

015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6645]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What notifications must I submit and when?

(a) The permittee must submit

(1) a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin

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as required in 40 CFR §63.7(b)(1).

(2) a Notification of Compliance Status according to 40 CFR §63.9(h)(2)(ii).

(b) The Notification of Compliance Status, including the performance test results, must be submitted before the close of business on the 60th day following the completion of the performance test according to 40 CFR §63.10(d)(2).

016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6650]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What reports must I submit and when?

(a) The permittee must submit semiannual Compliance report according to the following requirements.

(1) The first Compliance report must cover the period beginning on the compliance date and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date.

(2) The first Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date.

(3) Each subsequent Compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) Each subsequent Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(5) The permittee may submit the first and subsequent Compliance reports according to the dates the Department has established instead of according to the dates specified above.

(b) The Semiannual Compliance report must contain the information specified below.

(1) Company name and address.

(2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If there was a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by the permittee during a malfunction of an affected source to minimize emissions in accordance with 40 CFR §63.6605(b), including actions taken to correct a malfunction.

(5) If there are no deviations from any emission or operating limitations, a statement that there were no deviations from the emission or operating limitations during the reporting period.

(6) If there were no periods during which the CPMS was out-of-control, as specified in 40 CFR §63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period.

(c) For each deviation from an emission or operating limitation, the Compliance report must contain the information in condition (b)(1) through (4) above and the information in paragraphs (c)(1) and (2) below.

(1) The total operating time of the engine at which the deviation occurred during the reporting period.

(2) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

**SECTION E. Source Group Restrictions.**

(d) For each deviation from an emission or operating limitation occurring, the permittee must include information in Condition (c)(1) and (2) above and Conditions in (d)(1) through (12) below:

- (1) The date and time that each malfunction started and stopped.
- (2) The date, time, and duration that each CPMS was inoperative, except for zero (low-level) and high-level checks.
- (3) The date, time, and duration that each CPMS was out-of-control, including the information in 40 CFR §63.8(c)(8).
- (4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.
- (5) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.
- (6) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.
- (7) A summary of the total duration of CPMS downtime during the reporting period, and the total duration of CPMS downtime as a percent of the total operating time of the engine at which the CPMS downtime occurred during that reporting period.
- (8) An identification of each parameter that was monitored at the engine.
- (9) A brief description of the engine.
- (10) A brief description of the CPMS.
- (11) The date of the latest CPMS certification or audit.
- (12) A description of any changes in CPMS, processes, or controls since the last reporting period.

Note: The stack test reports, as per 40 CFR Parts 60 and 63, shall be submitted via CDX/CEDRI.

VI. WORK PRACTICE REQUIREMENTS.**# 017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6603]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?**

The permittee shall comply with the following, except during start-up operations:

- (a) maintain the catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water from the pressure drop across the catalyst that was measured during the initial performance test; and
- (b) maintain the temperature of the stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450°F and less than or equal to 1350°F.

[Note: The permittee shall demonstrate continuous compliance with this condition by complying with Table 6 to Subpart ZZZZ of Part 63, Bracket 10.]

[Note: For calculating the rolling 4-hour catalyst temperature averages, the permittee may exclude CPMS data collected during 30-minute or less maintenance events, akin to periods of start-up as defined in Subpart ZZZZ.]

[Note: Per the EPA letter dated Nov 29, 2019, the rule only requires a single data point per month, demonstrating compliance with the dP range established during the performance test. The pressure differential is not a continuous operating parameter requirement but is an indicator of whether or not the catalyst may be damaged or fouled.]

[Note: If the engine does not operate during a given calendar month, the owner/operator does not have to start up the engine solely for the purpose of recording pressure drop.]

018 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6605]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my general requirements for complying with this subpart?**

At all times the permittee must operate and maintain the engines, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels

**SECTION E. Source Group Restrictions.**

required by this standard have been achieved.

[Note: The pressure differential is an indicator of whether or not the catalyst may be damaged or fouled. Fouling/masking is characterized by a persistent pattern of pressure drop deviation, usually increasing, and not by isolated instances of deviation. To comply with the above maintenance requirement, any persistent pattern of pressure drop deviation should be investigated for the evidence of fouling/masking that has compromised catalyst functionality.]

019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What are my monitoring, installation, operation, and maintenance requirements?

The permittee must follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters.

020 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What are my monitoring, installation, operation, and maintenance requirements?

The permittee must install the following:

- (a) A closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere, or
- (b) An open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates and metals.

VII. ADDITIONAL REQUIREMENTS.

021 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6580]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What is the purpose of subpart ZZZZ?

40 CFR 63, Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions.

The five (5) 2.0 MW Diesel Engines (Source ID(s): 101 and 102) are subject to the provisions of 40 CFR 63, Subpart ZZZZ.

**SECTION E. Source Group Restrictions.**

Group Name: GROUP 2

Group Description: All Diesel Engines (2MW and 2.25MW)

Sources included in this group

ID	Name
101	4 DIESEL ENGINES (2MW EACH)
102	DIESEL ENGINE (2MW)
103	DIESEL ENGINE (2MW)
104	5 DIESEL ENGINES (2.25 MW EACH)
105	DIESEL ENGINE (2.25 MW)

I. RESTRICTIONS.**Emission Restriction(s).**

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from any source in excess of 0.04 gr/dscf, pursuant to 25 Pa. Code § 123.13(c)(1)(1).

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from any source in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 ppmvd.

[Use of the ultra-low sulfur content diesel fuel oil containing less than or equal to 15 ppm sulfur content also assures compliance with this condition.]

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall ensure that the sulfur content of the diesel fuel used for each of the Diesel Engines (Source ID(s): 101, 102, 103, 104 and 105) shall not exceed 0.0015%, by weight.

[Compliance with this diesel fuel sulfur content limit also assures compliance with 25 Pa. Code § 123.21 and 40 CFR § 1090.305.]

II. TESTING REQUIREMENTS.

004 [25 Pa. Code §139.16]

Sulfur in fuel oil.

(a) The following are applicable to tests for the analysis of commercial fuel oil:

(1) The fuel oil sample for chemical analysis shall be collected in a manner that provides a representative sample. Upon the request of a Department official, the person responsible for the operation of the source shall collect the sample employing the procedures and equipment specified in 25 Pa. Code § 139.4(10) (relating to references).

(2) Test methods and procedures for the determination of viscosity shall be that specified in 25 Pa. Code § 139.4(11) (relating to references). The viscosity shall be determined at 100°F.

(3) Tests methods and procedures for the determination of sulfur shall be those specified in 25 Pa. Code § 139.4(12)--(15) and (20).

(4) Results shall be reported in accordance with the units specified in 25 Pa. Code § 123.22 (relating to combustion units).

**SECTION E. Source Group Restrictions.**

(b) The testing requirements in subpart (a) above shall be waived in the event that a delivery receipt from the supplier, showing the percentage sulfur in the fuel, is obtained each time a fuel oil delivery is made.

III. MONITORING REQUIREMENTS.**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the following:

(a) Emissions of NO_x, CO, SO_x, PM, PM₁₀, PM_{2.5}, VOC and HAPs from each engine on a monthly basis and as a 12-month rolling sum.

(b) The total, combined operating hours for the engines on a monthly basis and as a 12-month rolling sum.

IV. RECORDKEEPING REQUIREMENTS.**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee may obtain from the fuel oil supplier, a delivery receipt that certifies the percentage of sulfur, by weight, is less than or equal to 0.0015 percent or 15 ppmv, each time a delivery is made.

In the event that a delivery is made, and no receipt is obtained, the permittee shall perform testing in accordance with Condition #004.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep the following records:

(a) Fuel certification or fuel test result, as an alternative, on each delivery that shows sulfur content and cetane index or aromatic content.

[Note: The permittee may also demonstrate compliance with the Cetane index and aromatic content through documents (i.e., letter) from the vendor stating that the fuel complies with the standards of 40 CFR § 1090.305 or the standard historically contained in 40 CFR § 80.510(b).]

(b) Emissions of NO_x, CO, SO_x, PM, PM₁₀, PM_{2.5}, VOC and HAPs from each engine on a monthly basis and as a 12-month rolling sum.

(c) The total, combined operating hours for the diesel engines on a monthly basis and as a 12-month rolling sum.

(d) Copies of each report submitted to the Department.

008 [25 Pa. Code §129.203]**Stationary internal combustion engines.**

(a) The owner or operator of a stationary internal combustion engine rated at greater than 1,000 horsepower and located in Bucks, Chester, Delaware, Montgomery or Philadelphia County shall comply with this section and 25 Pa. Code § 129.204 (relating to emission accountability).

(b) By October 31 of each year, the owner or operator of the stationary internal combustion engine shall calculate the difference between the actual emissions from the unit during the period from May 1 through September 30 and the allowable emissions for that period.

(c) The owner or operator shall calculate allowable emissions by multiplying the cumulative hours of operations for the unit for the period by the horsepower rating of the unit and by the applicable emission rate set forth in subparagraph (1).

[Note: The individual horsepower ratings for each of the four 2.0 MW Diesel Engines comprising Source ID: 101 is 2,848 bhp.

The horsepower rating for the Diesel Engine (2M) (Source ID: 102) is 2848 bhp.

The horsepower rating for the Diesel Engine (2MW) (Source ID: 103) is 2937 bhp.

**SECTION E. Source Group Restrictions.**

The individual horsepower rating for each of the five 2.25 MW Diesel Engine comprising Source ID: 104 is 3279 bhp. The horsepower rating for the Diesel Engine (2.25 MW) is 3591 bhp.]

(1) For a compression ignition stationary internal combustion engine firing diesel fuel or a combination of diesel fuel and natural gas, 2.3 grams of NOx per brake horsepower-hour.

(d) Emissions from a stationary internal combustion engine that has been or is replaced by an electric motor may be counted as allowable emissions for purposes of this section and 25 Pa. Code § 129.204, as follows:

(1) For a replaced compression ignition stationary internal combustion engine that fired diesel fuel or a combination of diesel fuel and natural gas, 2.3 grams of NOx per brake horsepower-hour, less 1.5 pounds of NOx per MWH of electricity consumed by the replacement motor.

V. REPORTING REQUIREMENTS.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall receive with each fuel oil delivery an electronic or paper record which legibly and conspicuously contains the following information:

- (a) the date of the sale or transfer;
- (b) the name and address of the seller;
- (c) the name and address of the buyer;
- (d) the delivery address;
- (e) the volume of commercial fuel oil purchased; and
- (f) the identification of the sulfur content of the shipment of fuel oil, determined using the sampling and testing methods specified in the testing requirement above, expressed as one of the following statements:

(1) For a shipment of No. 2 and lighter commercial fuel oil, "The sulfur content of this shipment is 15 ppm or below."

010 [25 Pa. Code §129.204]**Emission accountability.**

(a) For the purposes of compliance with 25 Pa. Code §129.203, the permittee shall determine actual emissions in accordance with one of the following:

(1) The 1-year average emission rate calculated from the most recent permit emission limit compliance demonstration test data for NOx.

(2) The maximum hourly allowable NOx emission rate contained in the permit.

(b) The permittee shall surrender to the Department one CSAPR NOx allowance and one CSAPR NOx Ozone Season allowance, as defined in 40 C.F.R. § 97.2 (relating to definitions), for each ton of NOx by which the combined actual emissions exceed the allowable emissions of the units subject to this section at the facility from May 1 through September 30. The surrendered allowances shall be of current year vintage. For the purpose of determining the amount of allowances to surrender, any remaining fraction of a ton equal to or greater than 0.50 ton is deemed to equal 1 ton and any fraction of a ton less than 0.50 ton is deemed to equal zero tons.

(c) If the combined allowable emissions from units subject to 25 Pa. Code §129.204 at a facility from May 1 through September 30 exceed the combined actual emissions from units subject to this section at the facility during the same period, the permittee may deduct the difference or any portion of the difference from the amount of actual emissions from units subject to this section at the owner or operator's other facilities.

(d) By November 1 of each year, the permittee shall surrender the required NOx allowances to the Department's designated NOx allowance tracking system account and provide the following to the Department in writing:

- (1) The serial number of each NOx allowance surrendered.
- (2) The calculations used to determine the quantity of NOx allowances required to be surrendered.

(e) If the permittee fails to comply with subsection (d), the permittee shall by December 31 surrender three NOx allowances

**SECTION E. Source Group Restrictions.**

of the current or later year vintage for each NOx allowance that was required to be surrendered by November 1 of that year.

(f) The surrender of NOx allowances under subsection (f) does not affect the liability of the permittee for any fine, penalty or assessment, or an obligation to comply with any other remedy for the same violation, under the CAA or the act.

(1) For purposes of determining the number of days of violation, if a facility has excess emissions for the period May 1 through September 30, each day in that period (153 days) constitutes a day in violation unless the owner or operator of the unit demonstrates that a lesser number of days should be considered.

(2) Each ton of excess emissions is a separate violation.

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

**SECTION E. Source Group Restrictions.**

Group Name: GROUP 3

Group Description: Subpart III Conditions

Sources included in this group

ID	Name
103	DIESEL ENGINE (2MW)
104	5 DIESEL ENGINES (2.25 MW EACH)
105	DIESEL ENGINE (2.25 MW)

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4206]****Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****How long must I meet the emission standards if I am an owner or operator of a stationary CI internal combustion engine?**

The permittee must operate and maintain the stationary CI ICE that achieve the emission standards as required above over the entire life of the engine.

Fuel Restriction(s).**# 002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4207]****Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to**

The permittee shall use diesel fuel that meets the following per-gallon standards:

- (a) Sulfur content: 15 ppm maximum
- (b) Cetane index or aromatic content, as follows:
 - (i) A minimum cetane index of 40; or
 - (ii) A maximum aromatic content of 35 volume percent.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

IV. RECORDKEEPING REQUIREMENTS.**# 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4214]****Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?**

The permittee must keep records of the following information.

- (a) All notifications submitted to comply with this subpart and all documentation supporting any notification.
- (b) Maintenance conducted on the engine.
- (c) If the stationary CI internal combustion is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards.
- (d) Any corrective actions taken.

**SECTION E. Source Group Restrictions.****V. REPORTING REQUIREMENTS.****# 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4214]****Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?**

The permittee must submit an initial notification as required in 40 CFR § 60.7(a)(1). The notification must include the following information:

- (a) Name and address of the owner or operator;
- (b) The address of the affected source;
- (c) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;
- (d) Emission control equipment; and
- (e) Fuel used.

VI. WORK PRACTICE REQUIREMENTS.**# 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]****Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

(a) The permittee must:

- (1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;
- (2) Change only those emission-related settings that are permitted by the manufacturer; and
- (3) Meet the requirements of 40 CFR Part 89 that apply.

(b) The engine must be installed and configured according to the manufacturer's emission-related specifications.

VII. ADDITIONAL REQUIREMENTS.**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall operate the emergency stationary R.I.C.E. according to the requirements in the most recent version of 40 C.F.R. Section 60.4211(f).

(b) If the permittee does not operate the engine according to the requirements of 40 C.F.R. Section 60.4211(f), the engine will not be considered an emergency engine under 40 C.F.R. Part 60 Subpart III and must meet all requirements for non-emergency engines, including 40 C.F.R. Section 60.4204(f) that states owners and operators of stationary CI ICE certified to the standards in 40 CFR part 1039 and equipped with AECDs (auxiliary emission control devices) as specified in 40 CFR § 1039.665 must meet the Tier 1 certification emission standards for new nonroad CI engines in 40 CFR § 89.112 while the AECD is activated during a qualified emergency situation. A qualified emergency situation is defined in 40 CFR § 1039.665. When the qualified emergency situation has ended and the AECD is deactivated, the engine must resume meeting the otherwise applicable emission standard specified in this section.

007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4200]**Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****Am I subject to this subpart?**

The provisions of this subpart are applicable to the owners and operators of stationary compression-ignition (CI) internal combustion engines (ICE) that commenced construction after July 11, 2005 and were manufactured after April 1, 2006, and are not fire pump engines.



SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this State Only facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
101	4 DIESEL ENGINES (2MW EACH)		
Emission Limit		Pollutant	
6.940	Lbs/Hr	each engine	CO
23.000	PPMV	Dry basis at 15% O2	CO
70.000	WEIGHT/%	or more reduction	CO
38.830	Lbs/Hr	each engine	NOX
500.000	PPMV	dry basis	SOX
0.040	gr/DRY FT3	particulate matter	TSP
102	DIESEL ENGINE (2MW)		
Emission Limit		Pollutant	
6.940	Lbs/Hr	each engine	CO
23.000	PPMV	Dry basis at 15% O2	CO
70.000	WEIGHT/%	or more reduction	CO
38.830	Lbs/Hr	each engine	NOX
500.000	PPMV	dry basis	SOX
0.040	gr/DRY FT3	particulate matter	TSP
103	DIESEL ENGINE (2MW)		
Emission Limit		Pollutant	
3.450	Lbs/Hr		CO
8.500	GRAMS/HP-Hr		CO
1.000	GRAMS/HP-Hr		Hydrocarbon
6.900	GRAMS/HP-Hr		NOX
42.100	Lbs/Hr		NOX
500.000	PPMV	dry basis	SOX
0.040	gr/DRY FT3	particulate matter	TSP
0.400	GRAMS/HP-Hr		TSP
104	5 DIESEL ENGINES (2.25 MW EACH)		
Emission Limit		Pollutant	
0.440	Lbs/Hr		CO
3.500	GRAMS/KW-Hr	each engine	CO
0.670	GRAMS/KW-Hr	each engine	NOX
4.140	Lbs/Hr		NOX
0.100	GRAMS/KW-Hr	each engine	PM10
500.000	PPMV	dry basis	SOX
0.040	gr/DRY FT3	particulate matter	TSP
0.400	GRAMS/KW-Hr	each engine	VOC
105	DIESEL ENGINE (2.25 MW)		
Emission Limit		Pollutant	
1.010	Lbs/Hr	@ 100% load	CO
1.260	Lbs/Hr		CO
5.310	Lbs/Hr	@ 100% load	NOX
7.180	Lbs/Hr		NOX

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
500.000	PPMV	dry basis	SOX
0.040	gr/DRY FT3	particulate matter	TSP
0.310	Lbs/Hr	@ 100% load	TSP
0.540	Lbs/Hr	particulate matter	TSP
0.190	Lbs/Hr	@ 100% load	VOC
0.240	Lbs/Hr		VOC

Site Emission Restriction Summary

Emission Limit		Pollutant
24.900 Tons/Yr	12-month rolling sum	NOX
10.000 Tons/Yr	highest single HAP	Hazardous Air Pollutants
25.000 Tons/Yr	all HAPS	Hazardous Air Pollutants

**SECTION H. Miscellaneous.**

- (a) February 19, 2002 (APS ID: 344202, AUTH ID: 48016): Initial Operating Permit to incorporate Plan Approval No. PA-09-0142.
- (b) October 2004: SOOP 09-00142 (APS ID: 550193, AUTH ID: 588619 was amended for a change of ownership from Qwest Communications Corporation (federal tax ID: 01-6141739) to ML 35 LLC (federal tax ID: 13-5674085).
- (c) October 1, 2007: SOOP 09-00142 (APS ID: 344202, AUTH ID: 701696) was renewed.
- (d) February 2009: SOOP 09-00142 (AUTH ID: 758067) amended to incorporate Plan Approval No. 09-0142A.
- (e) December 2009: SOOP 09-00142 (APS ID: 709455, AUTH ID: 817257) amended to incorporate the General Plan Approval and General Operating Permit 09-329-007GP for installation a 2.0 MW Diesel Generator (Source ID: 103).
- (f) September 2012: SOOP 09-00142 (APS ID: 709455, AUTH ID: 943696) was renewed.
- (g) January 27, 2015: SOOP 09-00142 (APS ID: 709455; AUTH ID: 1060424) was amended to incorporate Plan Approval No. 09-0142C.
- (h) January 2018: SOOP 09-00142 (APS ID: 957364; AUTH ID: 1210569) was amended for the following:
1. Incorporate requirements of Plan Approval 09-0142D
 2. Specify that plan approval condition #022 under Source ID(s): 101 and 102 do not apply during start-up conditions
 3. Remove testing requirements for Source ID: 104
 4. Process an ownership change and name change.
- (i) Transport Rule Allowance Retirement Option for Excess Nitrous Oxides Emissions under 25 Pa. Code §§ 129.201 – 129.205, Nonelectric Generating Units Subject to 25 Pa.Code § 145.8(d), Stationary Internal Combustion Units Subject to 25 Pa. Code §§ 145.111— 145.113 and Portland Cement Kilns Subject to 25 Pa. Code §§ 145.141—145.146. Specifically, for each ozone season beginning after January 1, 2015, the Department intends to accept the surrender of annual and ozone season Transport Rule (TR) NOx allowances as a compliance alternative to the surrender of annual and ozone season CAIR NOx allowances if the TR allowances are surrendered for compliance purposes in a manner consistent with the surrender provisions for CAIR allowances set forth in the applicable sections specified in this notice. The Department consulted with staff in the United States Environmental Protection Agency (EPA) Region III Office in developing an alternative allowance surrender approach for compliance with the applicable SIP-approved requirements. To this end, the EPA has confirmed, in writing, that TR NOx allowances may be surrendered as set forth in the applicable regulations in 25 Pa.Code Chapters 129 and 145. A detailed notice was published in the PA Bulletin on April 4, 2015 [45 Pa.B. 1687].
- (j) The State Only Operating Permit No. 09-00142 (APS ID: 957364, Auth ID: 1237387) has been renewed and administratively amended to incorporate a change in the name, address or phone number of the Responsible Official identified in the permit.
- (k) The following is a listing of the storage tanks, their contents and storage capacities at the BOA facility. Based on PTE, these tanks are classified as insignificant sources of VOC emissions.

Tank ID	Contents	Capacity (gal.)	Location
609947/001A	Diesel	5000	Equipment Yard SE of Bldg.
609948/002A	Diesel	5000	Equipment Yard SE of Bldg.
609949/003A	Diesel	5000	Equipment Yard SE of Bldg.
609950/004A	Diesel	5000	Equipment Yard SE of Bldg.
894082/005A	Diesel	10000	Equipment Yard SE of Bldg.
1002361/006A	Diesel	5000	Equipment Yard SE of Bldg.
1087710/008A	Diesel	5000	Equipment Yard SE of Bldg.
1002363/007A	Diesel	5000	Equipment Yard SE of Bldg.
009A	Diesel	400	Generator Room
010A	Diesel	400	Generator Room
011A	Diesel	400	Generator Room
012A	Diesel	400	Generator Room
013A	Diesel	400	Generator Room
Elevator Tank #1	Hydraulic Oil	220	Elevator Room
Generator #1 Crankcase	Motor Oil	125	Equipment Yard
Generator #2 Crankcase	Motor Oil	125	Equipment Yard
Generator #3 Crankcase	Motor Oil	125	Equipment Yard
Generator #4 Crankcase	Motor Oil	125	Equipment Yard
Generator #5 Crankcase	Motor Oil	125	Equipment Yard
Generator #6 Crankcase	Motor Oil	125	Equipment Yard
Generator #7 Crankcase	Motor Oil	125	Equipment Yard
Generator #8 Crankcase	Motor Oil	125	New Generator Room
Generator #9 Crankcase	Motor Oil	125	New Generator Room
Generator #10 Crankcase	Motor Oil	125	New Generator Room
Generator #11 Crankcase	Motor Oil	125	New Generator Room
DEF Tank 1		2300	Room 1B10



SECTION H. Miscellaneous.

DEF Tank 2	2300	Room 1B10
DEF Daytank 1	21	New Generator Room
DEF Daytank 2	21	New Generator Room
DEF Daytank 3	21	New Generator Room
DEF Daytank 4	21	New Generator room
DEF Daytank 5	21	New Generator Room

400-gal. day tank for generator G12 (Source ID: 105)

21.9-gal. DEF for generator G12 (Source ID: 105)

[Note: Diesel Exhaust Fluid (DEF) is comprised of approximately 32.5% urea and 67.5% deionized water.]

127-gal. motor oil crank case for generator G12 (Source ID: 105)

(l) The emission limits and other data presented in Section F (Emission Restriction Summary) is for informational purposes only. The applicable requirements are listed in conditions in Section C (Site Level Requirements) and Section D (Source Level Requirements)

(m) The State Only Operating Permit 09-00142 (APS ID: 957364, Auth ID: 1330501) has been administratively amended to incorporate conditions from Plan Approval 09-0142E, correct typographical errors and to include a physical address for applicable correspondences to DEP Central Office.

(n) State Only Operating Permit 09-00142 (APS ID: 957364, Auth ID: 1388356) has been administratively amended to incorporate Plan Approval(s) 09-0142F and 09-0142G, update the name and title of the Responsible Official listed on the title/cover page, correct typographical errors and update submission instructions.

(o) The State Only Operating Permit 09-00142 (APS ID: 957364, Auth ID: 1481755) has been renewed.



***** End of Report *****
